ELSEVIER

Information Processing Letters 69 (1999) 315–316

Information Processing Letters

Subject Index Volume 69 (1999)

β-skeleton 215

Algorithmic learning theory 1
Algorithms 1, 7, 53, 63, 87, 145, 189, 239, 271, 275
Analog-to-residue converter 249
Analysis of algorithms 47, 259
Approximation 127
Approximation algorithms 53
Authentication 297
Automatic theorem proving 107, 221

Balance 21
Bifurcation ratio of lung 47
Boolean functions 21
Broadcast encryption 131
Broadcasts 155

Channel graphs 155
Chordal bipartite graphs 87
Chordal rings 155
Circuit complexity 175
Coding theory 99
Combinatorial designs 131
Combinatorial problems 123, 189, 283
Communication-induced checkpointing 31
Complete axiomatization 221
Computability 291
Computational complexity 1, 77, 83, 111, 167, 175, 181, 201, 221, 239, 267, 309
Computational geometry 7, 25, 39, 127, 189, 215
Computer aided design 267
Concurrency 137, 233
Consecutive retrieval property 15
Consensus 243
Constant amortized time 123
Cost model 69
Cryptanalysis 95
Cryptographic attack 297
Cryptography 21, 95, 131, 145, 201, 227

Data structures 7, 119, 197, 253
Databases 69
Deadlock resolution 149
Decoding algorithm 119
Definite iteration 207
Descriptive complexity 77
Dickson polynomials 271
Digital signature 95
Discrete optimization 127
Discrete tomography 283
Distributed computing 259
Distributed systems 31, 59, 99, 149, 243
Divide and conquer 63
Domino effect 31

Elementary formal system 161
EXP 83
Expander graph 303

Fault diagnosis 99
Fault tolerance 31, 99, 155, 167, 243
Finite model theory 77
Formal languages 59, 137, 161

Global avalanche characteristics 21
Global invariant 233
Graph isomorphism 201
Group signature 95
Group technology 275

Halver 303
Heap 197
Hitting time 259
Horton–Strahler number/order 47
Huffman code 119

Independent spanning trees 155
Information retrieval 15
Interconnection networks 243
Inter-protocol interleaving attack 297

Java multi-threaded programming 233

Key distribution 297
k-nearest neighbor query 69

Linear codes 267
Linear complexity 227
Listing algorithms 123

Elsevier Science B.V.

LMT-skeleton 215
Lower bounds 267

Map labeling 25
Martingales 115
Max-flow problem 239
Meeting time 259
Minimal perfect hashing 253
Minimum abort set 149
Minimum-weight triangulation 215
Modulo adder 249
Multidimensional index 69
Multimedia databases 69
Multiple constraints 111
Multiprocessors 99

Network design 63
Nonlinear filters 227
Nonlinearity 21
NP-completeness 111

Online algorithm 39
Operating systems 149

P/poly 83
Parallel processing 249
Parameterized recurrent systems 291
Parity branching programs 267
Pattern recognition 189
Period 227
Polynomial-time hierarchy 309
Polyominoes 283
Potential function arguments 239
Preflow-push method 239
Priority queue 197
Probabilistic analysis 47
Program correctness 137, 207
Program schemes 77
Program specification 221
Program verification 137
Progress property 107
Proof rule 207
Propagation criterion 21
Pseudorandom sequences 227
Pseudo-random generator 83

Random access files 145
Random binary search tree 47
Random walks 259
Randomness 115
Relativization 309
Resource allocation 149
Resource-bounded measure 83
Rewriting techniques 271
RNS 249
Rollback-recovery 31
Ronald Book 309
Routing 111

SAGBI bases 271
Scheduling 275
Search algorithms 253
Secret sharing schemes 131
Shortest path 87, 111
Specification languages 107, 137
Star-shaped polygon 39
Steiner minimum trees 53
Strongly chordal graphs 87
Structural properties 227
System of affine recurrence equations 291
Systolic architectures methodologies 291

Temporal logic 221
Theory of computation 137, 167, 309
Trees 63
Turing machines 291

Unification 161
Unit interval graphs 15
UNITY 107
Universal invariants 271

Verification method 207
VLSI design 53

WDM optimal networks 53
Wireless communications 53

Zero-knowledge interactive proofs 201

ELSEVIER

Information Processing Letters 69 (1999) 317–319

Information Processing Letters

Author Index Volume 69 (1999)

Aichholzer, O., **F. Aurenhammer** and **R. Hainz**, New results on MWT subgraphs 69 (1999) 215
Alur, R. and **D. Peled**, Undecidability of partial order logics 69 (1999) 137
Arvind, A. and **C. Pandu Rangan**, Symmetric Min–Max heap: A simpler data structure for double-ended priority queue 69 (1999) 197
Arvind, V. and **J. Torán**, Sparse sets, approximable sets, and parallel queries to NP 69 (1999) 181
Aurenhammer, F., *see* **Aichholzer, O.** 69 (1999) 215
Avresky, D.R., *see* **Karpovsky, M.G.** 69 (1999) 99

Bordihn, H. and **M. Holzer**, On a hierarchy of languages generated by cooperating distributed grammar systems 69 (1999) 59
Bshouty, N.H., **L. Higham** and **J. Warpechowska-Gruca**, Meeting times of random walks on graphs 69 (1999) 259

Cai, J.-Y., A classification of the probabilistic polynomial time hierarchy under fault tolerant access to oracle classes 69 (1999) 167
Cai, L., **Y. Xu** and **B. Zhu**, Computing the optimal bridge between two convex polygons 69 (1999) 127
Camp, T., *see* **Terekhov, I.** 69 (1999) 149
Cha, G.-H., *see* **Lee, J.-H.** 69 (1999) 69
Chakrabarty, K., *see* **Karpovsky, M.G.** 69 (1999) 99
Chang, J.-M., *see* **Ho, C.-W.** 69 (1999) 87
Chao, K.-M., *see* **Wu, B.Y.** 69 (1999) 63
Chauhan, S.R. and **I.A. Stewart**, On the power of built-in relations in certain classes of program schemes 69 (1999) 77
Chee, S., *see* **Sung, S.H.** 69 (1999) 21
Chen, H.-C., **Y.-L. Wang** and **Y.-F. Lan**, A memory-efficient and fast Huffman decoding algorithm 69 (1999) 119
Cheng, T.C.E., *see* **Liu, Z.** 69 (1999) 275
Cheriyan, J. and **K. Mehlhorn**, An analysis of the highest-level selection rule in the preflow-push max-flow algorithm 69 (1999) 239
Chin, Y.H., *see* **Yan, K.Q.** 69 (1999) 243
Chrobak, M. and **C. Dürr**, Reconstructing hv-convex polyominoes from orthogonal projections 69 (1999) 283
Chung, C.-W., *see* **Lee, J.-H.** 69 (1999) 69
Chwa, K.-Y., *see* **Lee, J.-H.** 69 (1999) 39
Crégut, P. and **B. Heyd**, Progress properties for empty UNITY programs 69 (1999) 107

Damm, C., Depth-efficient simulation of Boolean semi-unbounded circuits by arithmetic ones 69 (1999) 175
De Santis, A., **G. Di Crescenzo**, **O. Goldreich** and **G. Persiano**, The graph clustering problem has a perfect zero-knowledge interactive proof 69 (1999) 201
Denis, F., Finding a minimal 1-DNF consistent with a positive sample is LOGSNP-complete 69 (1999) 1
Deogun, J.S. and **K. Gopalakrishnan**, Consecutive retrieval property—revisited 69 (1999) 15
Di Crescenzo, G., *see* **De Santis, A.** 69 (1999) 201
Dürr, C., *see* **Chrobak, M.** 69 (1999) 283

Fortnow, L., Relativized worlds with an infinite hierarchy 69 (1999) 309
Fúster-Sabater, A., *see* **García-Villalba, L.J.** 69 (1999) 227

García-Villalba, L.J. and **A. Fúster-Sabater**, On the general classification of nonlinear filters of m-sequences 69 (1999) 227
Göbel, M., A rewriting technique for universal polynomial invariants 69 (1999) 271
Goldreich, O., *see* **De Santis, A.** 69 (1999) 201
Golić, J.Dj., Stream cipher encryption of random access files 69 (1999) 145
Gopalakrishnan, K., *see* **Deogun, J.S.** 69 (1999) 15
Gupta, P., **R. Janardan** and **M. Smid**, Efficient algorithms for counting and reporting pairwise intersections between convex polygons 69 (1999) 7

Hainz, R., *see* **Aichholzer, O.** 69 (1999) 215
Heyd, B., *see* **Crégut, P.** 69 (1999) 107
Higham, L., *see* **Bshouty, N.H.** 69 (1999) 259
Ho, C.-W. and **J.-M. Chang**, Solving the all-pairs-shortest-length problem on chordal bipartite graphs 69 (1999) 87

Elsevier Science B.V.

Holzer, M., *see* **Bordihn, H.** 69 (1999) 59
Hu, C.-M., *see* **Tzeng, W.-G.** 69 (1999) 297
Hwang, T., *see* **Wang, C.-H.** 69 (1999) 95

Igarashi, Y., *see* **Iwasaki, Y.** 69 (1999) 155
Ishizaka, H., *see* **Sugimoto, N.** 69 (1999) 161
Iwasaki, Y., Y. Kajiwara, K. Obokata and **Y. Igarashi**, Independent spanning trees of chordal rings 69 (1999) 155
Iwata, A., *see* **Torres, M.A.** 69 (1999) 253

Janardan, R., *see* **Gupta, P.** 69 (1999) 7
Jukna, S., Linear codes are hard for oblivious read-once parity branching programs 69 (1999) 267

Kajiwara, Y., *see* **Iwasaki, Y.** 69 (1999) 155
Karpovsky, M.G., K. Chakrabarty, L.B. Levitin and **D.R. Avresky**, On the covering of vertices for fault diagnosis in hypercubes 69 (1999) 99
Kruszewski, P., A note on the Horton–Strahler number for random binary search trees 69 (1999) 47
Kuo, S.-Y., *see* **Tsai, J.** 69 (1999) 31
Kuroyanagi, S., *see* **Torres, M.A.** 69 (1999) 253

Lan, Y.-F., *see* **Chen, H.-C.** 69 (1999) 119
Le Verge, H., *see* **Saouter, Y.** 69 (1999) 291
Lee, J.-H., G.-H. Cha and **C.-W. Chung**, A model for k-nearest neighbor query processing cost in multidimensional data space 69 (1999) 69
Lee, J.-H. and **K.-Y. Chwa**, Tight analysis of a self-approaching strategy for the online kernel-search problem 69 (1999) 39
Lee, N.-Y., *see* **Wang, C.-H.** 69 (1999) 95
Levitin, L.B., *see* **Karpovsky, M.G.** 69 (1999) 99
Lin, G.-H. and **G. Xue**, Steiner tree problem with minimum number of Steiner points and bounded edge-length 69 (1999) 53
Liu, Z., W. Yu and **T.C.E. Cheng**, Scheduling groups of unit length jobs on two identical parallel machines 69 (1999) 275

Manos, H., Construction of halvers 69 (1999) 303
Mehlhorn, K., *see* **Cheriyan, J.** 69 (1999) 239
Mizuno, M., A structured approach for developing concurrent programs in Java 69 (1999) 233

Nepomniaschy, V.A., Symbolic verification method for definite iteration over data structures 69 (1999) 207

Obokata, K., *see* **Iwasaki, Y.** 69 (1999) 155

Pandu Rangan, C., *see* **Arvind, A.** 69 (1999) 197
Park, C., *see* **Sung, S.H.** 69 (1999) 21
Peled, D., *see* **Alur, R.** 69 (1999) 137
Persiano, G., *see* **De Santis, A.** 69 (1999) 201
Preethy, A.P., *see* **Radhakrishnan, D.** 69 (1999) 249

Radhakrishnan, D. and **A.P. Preethy**, A parallel approach to direct analog-to-residue conversion 69 (1999) 249
Raskin, J.-F., *see* **Schobbens, P.-Y.** 69 (1999) 221
Robins, G., B.L. Robinson and **B.S. Sethi**, On detecting spatial regularity in noisy images 69 (1999) 189
Robinson, B.L., *see* **Robins, G.** 69 (1999) 189
Roelants van Baronaigien, D., A multi-stack method for the fast generation of permutations with minimal length increasing subsequences 69 (1999) 123

Saouter, Y. and **H. Le Verge**, Computability of affine non-conditional recurrent systems 69 (1999) 291
Schobbens, P.-Y. and **J.-F. Raskin**, The logic of "initially" and "next": Complete axiomatization and complexity 69 (1999) 221
Sethi, B.S., *see* **Robins, G.** 69 (1999) 189
Smid, M., *see* **Gupta, P.** 69 (1999) 7
Stewart, I.A., *see* **Chauhan, S.R.** 69 (1999) 77
Stinson, D.R. and **R. Wei**, An application of ramp schemes to broadcast encryption 69 (1999) 131
Strijk, T. and **M. van Kreveld**, Labeling a rectilinear map more efficiently 69 (1999) 25
Sugimoto, N. and **H. Ishizaka**, Generating languages by a derivation procedure for elementary formal systems 69 (1999) 161
Sung, S.H., S. Chee and **C. Park**, Global avalanche characteristics and propagation criterion of balanced Boolean functions 69 (1999) 21

Tang, C.Y., *see* **Wu, B.Y.** 69 (1999) 63
Terekhov, I. and **T. Camp**, Time efficient deadlock resolution algorithms 69 (1999) 149
Torán, J., *see* **Arvind, V.** 69 (1999) 181
Torres, M.A., S. Kuroyanagi and **A. Iwata**, The Self-Indexed Search Algorithm: A bit-level approach to minimal perfect hashing 69 (1999) 253
Tsai, J., Y.-M. Wang and **S.-Y. Kuo**, Evaluations of domino-free communication-induced checkpointing protocols 69 (1999) 31
Tzeng, W.-G. and **C.-M. Hu**, Inter-protocol interleaving attacks on some authentication and key distribution protocols 69 (1999) 297

van Kreveld, M., *see* **Strijk, T.** 69 (1999) 25

Wang, C.-H., T. Hwang and **N.-Y. Lee**, Comments on two group signatures 69 (1999) 95
Wang, S.C., *see* **Yan, K.Q.** 69 (1999) 243
Wang, Y., A separation of two randomness concepts 69 (1999) 115
Wang, Y.-L., *see* **Chen, H.-C.** 69 (1999) 119
Wang, Y.-M., *see* **Tsai, J.** 69 (1999) 31
Wang, Z., On the complexity of quality of service routing 69 (1999) 111
Warpechowska-Gruca, J., *see* **Bshouty, N.H.** 69 (1999) 259

Wei, R., *see* **Stinson, D.R.** 69 (1999) 131
Wu, B.Y., **K.-M. Chao** and **C.Y. Tang**, An efficient algorithm for the length-constrained heaviest path problem on a tree 69 (1999) 63

Xu, Y., *see* **Cai, L.** 69 (1999) 127
Xue, G., *see* **Lin, G.-H.** 69 (1999) 53

Yan, K.Q., **S.C. Wang** and **Y.H. Chin**, Consensus under unreliable transmission 69 (1999) 243
Yu, W., *see* **Liu, Z.** 69 (1999) 275

Zhu, B., *see* **Cai, L.** 69 (1999) 127
Zimand, M., Relative to a random oracle, P/poly is not measurable in EXP 69 (1999) 83